



(19)

(11) Publication number:

0

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **62250615**(51) Intl. Cl.: **H04L 27/14**(22) Application date: **06.10.87**

(30) Priority:

(43) Date of application
publication: **12.04.89**(84) Designated contracting
states:(71) Applicant: **NIPPON TELEGR & TEL
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(54) DIGITAL FM DETECTING AND DEMODULATING SYSTEM

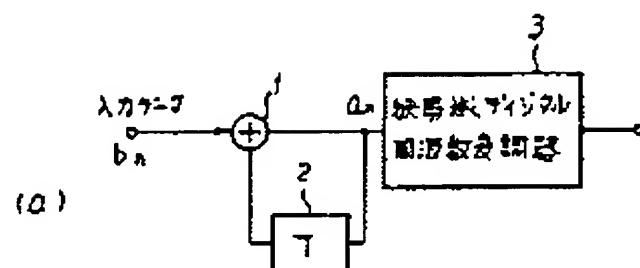
(57) Abstract:

PURPOSE: To widely open an eye pattern to obtain an excellent error characteristic by shifting the sampling time by $T/2$ (T is the bit length).

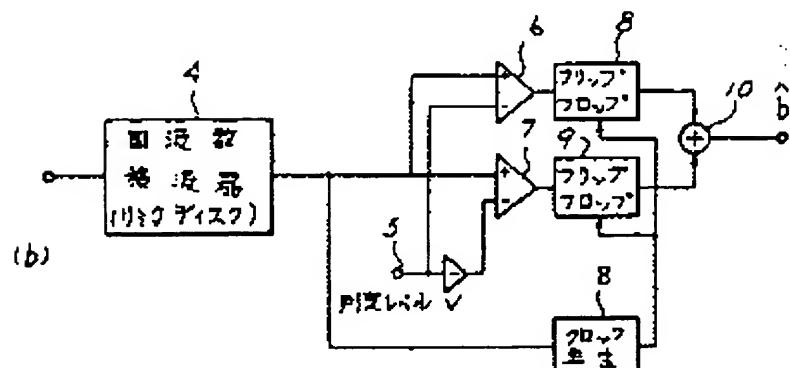
CONSTITUTION: In the transmission side, input data b_n is subjected to summation logic conversion to generate new data a_n and this data has the frequency modulated and is transmitted and in the reception side, a clock synchronizing circuit 8 is used to generate a $T/2$ bit offset sampling clock from the output of a frequency detector 4. Meanwhile, the detection output is inputted to comparators 6 and 7, and comparison levels are inputted from an input terminal 5, and the comparator 6 compares the detection output with a voltage V and the comparator 7 compares the

frequency detection output with a voltage -V. Comparator outputs are read into D flip flops by the clock, and reproduced data bn is obtained by exclusive OR 10. Thus, a characteristic superior in error rate is obtained.

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